

Sub A7

## Communication System Receiver and Method for Concurrent Receiving of Multiple Channels

### Abstract

A method and apparatus in a communication system provide for concurrent processings of signals at the different frequencies. A received signal is down converted in a RF/IF system (490) to produce on-channel and out-of-channel received samples (305, 306). The on-channel received samples (305) are processed in a back-end portion 499 to decode on-channel information. The out-of-channel received samples (306) are processed to determine at least one of a link quality and global positioning system originated information in the back-end portion 499. The processings of the on-channel received samples (305) and the out-of-channel received samples (306) are performed essentially at the same time by the receiver back-end (499).